

## INTERNATIONAL SEARCH REPORT

Internat Application No. PCT/IB 03/02910

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04J13/04 H04J13/00 H04L5/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04J H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	POPOVIC B M: "SPREADING SEQUENCES FOR MULTICARRIER CDMA SYSTEMS" IEEE TRANSACTIONS ON COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 47, no. 6, June 1999 (1999-06), pages 918-926, XP000913543 ISSN: 0090-6778 paragraphs '000I!-'000V!; figures 1-9 --- -/-	1-10

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

7 October 2003

Date of mailing of the international search report

15/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Nilsson, M

## INTERNATIONAL SEARCH REPORT

Inter

Application No.

PCT/IB 03/02910

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	STANCZAK S ET AL: "ARE LAS-CODES A MIRACLE?" GLOBECOM'01. 2001 IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE. SAN ANTONIO, TX, NOV. 25 - 29, 2001, IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE, NEW YORK, NY: IEEE, US, vol. 1 OF 6, 25 November 2001 (2001-11-25), pages 589-593, XP001090323 ISBN: 0-7803-7206-9 paragraphs '000I!-'00IV!; figures 1-3 ---	1-10
A	YIP KUN-WAH ET AL: "EFFECTS OF CARRIER FREQUENCY ACCURACY ON QUASI-SYNCHRONOUS, MULTICARRIER DS-CDMA COMMUNICATIONS USING OPTIMIZED SEQUENCES" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 17, no. 11, November 1999 (1999-11), pages 1915-1923, XP000880707 ISSN: 0733-8716 paragraphs '000I!-'000V!; figures 1,2 -----	1-10